Abstract

A highly reliable control device for an AC generator without using a transistor and diode having high withstand voltage is provided.

A control device for a vehicle AC generator including a voltage control circuit that controls an output voltage of a rectifying circuit connected to a stator coil to a substantially constant level has a first active switch having its one end connected to one end of the field coil and having its other end connected a negative output terminal of the rectifying circuit, a second active switch having its one end connected to a positive output terminal of the rectifying circuit and having its other end connected to the other end of the field coil, a first passive switch connected between the negative output terminal of the rectifying circuit and a connecting point of the second active switch and the field coil, and a second passive switch connected between the positive output terminal of the rectifying circuit and a connecting point of the first active switch and the field coil, and the first and second active switches are on/off-controlled independently of each other.